

Attorney Docket No.A34920-PCT-USA-072667.0179 PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

: Beclin, Christophe *et al*.

Serial No.

10/030,829

Examiner:

TBA

Filed

January 11, 2002

Group Art Unit:

1646

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For

NOVEL SGS3 PLANT GENE AND USES THEREOF

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LETTER OF CORRECTION

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patens, Washington, D.C. 20231

February 14, 2003

Date of Deposit

Alicia A. Russo

Signature

Attorney Name

46,192

PTO Registration No.

February 14, 2003

Date of Signature

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Applicants respectfully request correction on the Information Disclosure Statement and PTO 1449 Form, mailed January 31, 2003 (copies attached) to reflect correction of the Serial Number for the above-captioned application from "10/030,289" to --10/030,829--.

Respectfully submitted,

Dated: February 14, 2003

Álicia A. Russo

Patent Office Reg. No. 46,192

Attorney for Applicants

OTP & BAKER BOTTS LLP.

Attorney Docket No.A3452J-PCT-USA-072667.0179 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Beclin, Christophe et al.

Serial No.

10/030,289

Examiner:

TBA #15

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INFORMATION DISCLOSURE STATEMENT

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Sir:

In accordance with 37 C.F.R. §1.56 and §1.97(c)(2), Applicants respectfully request that the documents relating to the above-identified application listed herein in reverse chronological alphabetical order be considered and made of record in the U.S. Patent and Trademark Office.

- 1. U.S. Patent No. 5,565,346 to Facciotti. on October 15, 1996
- 2. U.S. Patent No. 5,554,798 to Lundquist et al. on September 10, 1996
- 3. U.S. Patent No. 5,538,877 to Lundquist et al. on July 23, 1996

BAKER BOTTS L.L.P.

Attorney Docket No.A349∠0-PCT-USA-072667.0179 PATENT

- 4. U.S. Patent No. 5,510,318 to Patel *et al.* on April 23, 1996
- 5. U.S. Patent No. 5,508,468 to Lundquist et al. on April 16, 1996
- 6. U.S. Patent No. 5,489,520 to Adams *et al.* on February 6, 1996
- 7. U.S. Patent No. 5,484,956 to Lundquist et al. on January 16, 1996
- 8. U.S. Patent No. 5,487,744 to Sanford *et al.* on December 26, 1995
- 9. U.S. Patent No. 5,464,763 to Schilperoort et al. on November 7, 1995
- 10. U.S. Patent No. 5,405,765 to Vasil et al. on April 11, 1995
- 11. U.S. Patent No. 5,371,014 to Matsuyama et al. on December 6, 1994
- 12. U.S. Patent No. 5,204,253 to Sanford et al. on April 20, 1993
- 13. U.S. Patent No. 5,187,073 to Goldman *et al.* on February 16, 1993
- 14. U.S. Patent No. 5,179,022 to Sanford *et al.* on January 12, 1993
- 15. U.S. Patent No. 5,177,010 to Goldman *et al.* on January 5, 1993
- 16. U.S. Patent No. 5,100,792 to Sanford *et al.* on March 31, 1992
- 17. U.S. Patent No. 5,036,006 to Sanford *et al.* on July 30, 1991
- 18. U.S. Patent No. 4,945,050 to Sanford *et al.* on July 31, 1990
- 19. U.S. Patent No. 4,536,475 to Anderson. on August 20, 1985

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- 20. U.S. Patent No. 4,459,355 to Cello et al. on July 10, 1984
- 21. EP 0 672 752 A1 by Saito et al.
- 22. EP 0 604 662 A1 by Hiei et al.
- 23. EP 0 486 234 A2 by Bidney.
- 24. EP 0 486 233 A2 by Bidney.
- 25. EP 0 442 174 A1 by Tomes.
- 26. EP 0 267 159 A2 by Grimsley.
- 27. WO 97/46690 A1 by Drake *et al*.

BAKER BOTTS LLP.

Attorney Docket No.A34920-PCT-USA-072667.0179 PATENT

- 28. WO 95/06128 A2 by Dams et al.
- 29. EP 0 674 725 now WO 94/13863 A1 by Scruggs et al.
- 30. EP 0 539 563 now WO 92/20809 A1 by Christou et al.
- 31. WO 91/02071 A2 by Adams *et al*.
- 32. Buell C.R. et al., Accession No. AQ964581, January 31, 2000.
- 33. Nakamura Y. et al., Accession No. AV566465, June 16, 2000.
- 34. Nakamura Y. *et al.*, Accession No. AV525508, June 15, 2000.
- 35. Mourrain P. et al., Accession No. AF239719, June 7, 2000.
- 36. Nakamura Y., Accession No. AB025633, April 9, 1999.
- 37. Genoscope, Accession No. AL084227, June 28, 1999.
- 38. DOE Joint Genome Institute, Accession No. AC009109, August, 4, 1999.
- 39. Chen J. et al., Accession No. AI999551, September 9, 1999.
- 40. Wassenegger M *et al.*, 1998, "A model for RNA-mediated gene silencing in higher plants" *Plant Molecular Biology* **37**:349-362.
- 41. Aranda M *et al.*, 1998, "Virus-Induced Host Gene Shutoff in Animals and Plants" *Virology* **243**:261-267, Article No. VY989032.
- 42. Fire A *et al.*, 1998, "Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans" *Nature* **391**:806-811.
- 43. Al-Kaff N et al., 1998, "Transcriptional and Posttranscriptional Plant Gene Silencing in Response to a Pathogen" www.sciencemag.org * Science 279:2113-2115.
- 44. Jorgensen R et al., 1998, "An RNA-Based Information Superhighway in Plants" www.sciencemag. org * Science 279:1486-1487.
- 45. Rounsley S.D. *et al.*, Accession No. AQ010650, May 29, 1998.
- 46. Vaucheret H et al., 1998, XP-002149065, "Transgene-induced gene silencing in plants" *The Plant Journal* **16**(6):651-659.
- 47. Elmayan T *et al.*, 1998, XP-002149063, "Arabidopsis Mutants Impaired in Cosuppression" *The Plant Cell* **10**:1747-1757.

- 48. Voinnet O *et al.*, 1998, "Systemic Spread of Sequence-Specific Transgene RNA Degradation in Plants Is Initiated by Localized Introduction of Ectopic Promoterless DNA" *Cell* **95**:177-187.
- 49. Schiebel W *et al.*, 1998, "Isolation of an RNA-Directed RNA Polymerase-Specific cDNA Clone from Tomato" *www.plantcell.org*, *The Plant Cell* **10**:2087-2101.
- 50. Kassachau K *et al.*, 1998, "A Counterdefensive Strategy of Plant Viruses: Suppression of Posttranscriptional Gene Silencing" *Cell* **95**:461-470.
- 51. Jones C *et al.*, 1998, "The effect of chimeric transgene architecture on coordinated gene silencing" *Planta* **204**:499-505.
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- 53. Prokisch H *et al.*, 1997, "Impairment of calcineurin function in Neurospora crassa reveals its essential role in hyphal growth, morphology and maintenance of the apical Ca²⁺ gradient" *Mol Gene Genet* **256**:104-114.
- 54. Ratcliff F et al., 1997, "A Similarity Between Viral Defense and Gene Silencing in Plants" www.sciencemag.org, Science 276:1558-1560.
- 55. Kempin SA et al., 1997, "Targeted disruption in Arabidopsis" Nature **389**:802-803.
- 56. Voinnet O et al., 1997, "Systemic signalling in gene silencing" Nature 389:553.
- 57. Jean-Christophe P *et al.*, 1997, "Systemic acquired silencing: transgene-specific post-transcriptional silencing is transmitted by grafting from silenced stocks to non-silenced scions" *The EMBO Journal* **16**(15):4738-4745.
- 58. Angell S *et al.*, 1997, "Consistent gene silencing in transgenic plants expressing a replicating potato virus X RNA" *The EMBO Journal* **16**(12):3675-3684.
- 59. Elmayan T *et al.*, 1996, "Expression of single copies of a strongly expressed 35S transgene can be silenced post-transcriptionally" *The Plant Journal* **9**(6):787-797.
- 60. Lomonossoff G, 1995, "Pathogen-Derived Resistance To Plant Viruses" *Annu. Rev. Phytopathol.* **33**:324-43.
- or van Engelen F et al., 1995, "pBINPLUS: an improved plant transformation vector based on pBIN19" Transgenic Research 4:288-290.



- 62. Panabières F *et al.*, 1995, "Characterization of a Gene Cluster of Phytophthora cryptogea Which Codes for Elicitins, Proteins Inducing a Hypersensitive-Like Response in Tobacco" *Molecular Plant-Microbe Interactions* 8(6):996-1003.
- 63. Kamoun S *et al.*, 1993, "A Gene Encoding a Host-Specific Elicitor Protein of Phytophthora parasitica" *MPMI* 6(5):573-581.
- 64. Judelson H et al., 1993, "Expression and antisense inhibition of transgenes in *Phytophthora infestans* is modulated by choice of promoter and position effects" *Gene* 133:63-69.
- 65. Altschul S, 1993, "A Protein Alignment Scoring System Sensitive at All Evolutionary Distances" *J Mol Evol* **36**:290-300.
- 66. Kortt A *et al.*, 1991, "Amino acid and cDNA sequences of a methionine-rich 2S protein from sunflower seed (*Helianthus annus L.*)" *Eur. J. Biochem.* **195**:329-334.
- 67. Altschul S *et al.*, 1990, "Basic Local Alignment Search Tool" *J Mol. Biol.* **215**:403-410.
- 68. White J et al., 1990, "A cassette containing the bar gene of Streptomyces hygroscopius: a selectable marker for plant transformation" Nucleic Acids Research 18(4):1062.
- 69. Bevan M *et al.*, 1983, "A chimaeric antibiotic resistance gene as a selectable marker for plant cell transformation" *Nature* **304**:184-187.
- 70. Gritz L et al., 1983, "Plasmid-encoded hygromycin B resistance: the sequence of hygromycin B phosphotransferase gene and its expression in *Escherichia coli* and *Saccharomyces cerevisiae*" Gene 25:179-188.

The cited documents are listed in the accompanying PTO 1449 Form. Copies of the documents are submitted herewith in three bound volumes. Document 26 is in German.

Applicants have provided an English abstract of Document 26 obtained from

http://ep.espacenet.com. Documents 32-39 and 44 were obtained from

http://www.ncbi.nlm.nih.gov.

Identification of the documents listed in the attached PTO 1449 Form is not to be construed as an admission of Applicants or Attorneys for Applicants that such documents are

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PATENT

available as "prior art" against the above-identified application. Applicants submitted a copy of the International Preliminary Exam Report on January 11, 2002.

Applicants do not believe that a fee is required with this submission since no Office Action has been received. Nevertheless, any required fees not enclosed herewith may be charged to Deposit Account No. 02-4377. Two copies of this pare are enclosed.

Respectfully submitted,

Dated: January 31, 2003

Louis S. Sorell

PTO Reg. No. 32,439

Alicia A. Russo

Patent Office Reg. No. 46,192

30 Rockefeller Plaza

New York, NY 10112-4498

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Attorneys for Applicants

Enclosures

| Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office | Atty. Docket No. A34920 PCT-USA | Serial No. 10/030,289 |
|---|---|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | 072667.0179 Applicant Beclin, Christophe <i>et al</i> . | |
| OVP E(Use several sheets if necessary) | Filing Date January 11, 2002 | Group 1646 RECEIVE |
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| | | | | | | | U | .S. I | PATENT D | OCUMENTS | | | |
|-----------------|-----|---|---|----|-------|-------|---|-------|----------|---------------------|-------|----------|-----------------------|
| *Exam. Init. | No. | | | Do | cumen | t No. | | | Date | Name | Class | Subclass | Filing Date if Appro. |
| | 1. | 5 | 5 | 6 | 5 | 3 | 4 | 6 | 10/15/96 | Facciotti | 435 | 172.3 | 07/27/88 |
| | 2. | 5 | 5 | 5 | 4 | 7 | 9 | 8 | 09/10/96 | Lundquist et al. | 800 | 205 | 05/15/95 |
| | 3. | 5 | 5 | 3 | 8 | 8 | 7 | 7 | 07/23/96 | Lundquist et al. | 435 | 172.3 | 11/10/92 |
| | 4. | 5 | 5 | 1 | 0 | 3 | 1 | 8 | 04/23/96 | Patel et al. | 504 | 223 | 05/25/93 |
| | 5. | 5 | 5 | 0 | 8 | 4 | 6 | 8 | 04/16/96 | Lundquist et al. | 800 | 205 | 04/16/96 |
| | 6. | 5 | 4 | 8 | 9 | 5 | 2 | 0 | 02/06/96 | Adams et al. | 435 | 172.3 | 04/26/94 |
| | 7. | 5 | 4 | 8 | 4 | 9 | 5 | 6 | 01/16/96 | Lundquist et al. | 800 | 205 | 04/11/90 |
| | 8. | 5 | 4 | 7 | 8 | 7 | 4 | 4 | 12/26/95 | Sanford et al. | 435 | 285.1 | 08/12/94 |
| | 9. | 5 | 4 | 6 | 4 | 7 | 6 | 3 | 11/07/95 | Schilperoort et al. | 435 | 172.3 | 12/23/93 |
| | 10. | 5 | 4 | 0 | 5 | 7 | 6 | 5 | 04/11/95 | Vasil et al. | 435 | 172.3 | 08/21/92 |
| | 11. | 5 | 3 | 7 | 1 | 0 | 1 | 4 | 12/06/94 | Matsuyama et al. | 435 | 280 | 10/22/93 |
| | 12. | 5 | 2 | 0 | 4 | 2 | 5 | 3 | 04/20/93 | Sanford et al. | 435 | 172.3 | 05/29/90 |
| | 13. | 5 | 1 | 8 | 7 | 0 | 7 | 3 | 02/16/93 | Goldman et al. | 435 | 172.3 | 11/13/89 |

| NY02:423895.1 | |
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| Examiner | Date Considered |

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office | Atty. Docket No. A34920 PCT-USA 072667.0179 | Serial No. 10/030,289 |
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Applicant Beclin, Christophe <i>et al</i> . | |
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| | | | | | | | U | J.S. I | PATENT D | OCUMENTS | | | |
|-------------|-----|-------|---|----|-------|-----|---|--------|----------|----------------|-------|----------|--------------------------|
| Exam. | No. | | | Do | cumen | No. | | | Date | Name | Class | Subclass | Filing Date if Appro. |
| | 14. | 5 | 1 | 7 | 9 | 0 | 2 | 2 | 01/12/93 | Sanford et al. | 435 | 287 | 02/11/92 |
| | 15. | 5 | 1 | 7 | 7 | 0 | 1 | 0 | 01/05/93 | Goldman et al. | 435 | 172.3 | 09/05/90 |
| | 16. | 5 | 1 | 0 | 0 | 7 | 9 | 2 | 03/31/92 | Sanford et al. | 435 | 172.1 | 01/24/89 |
| | 17. | 5 | 0 | 3 | 6 | 0 | 0 | 6 | 07/30/91 | Sanford et al. | 435 | 170.1 | 08/17/89 |
| | 18. | 4 | 9 | 4 | 5 | 0 | 5 | 0 | 07/31/90 | Sanford et al. | 435 | 172.1 | 11/13/84 |
| | 19. | 4 | 5 | 3 | 6 | 4 | 7 | 5 | 08/20/85 | Anderson | 435 | 172.3 | 10/05/82 |
| | 20. | 4 | 4 | 5 | 9 | 3 | 5 | 5 | 07/10/84 | Cello et al. | 435 | 172.3 | 07/12/82 |

| | No. | Document No. | Date | Country | Class | Subclass | <u>Translation</u> Yes No |
|---|-----|-----------------|----------|---------|-------|----------|------------------------------|
| | 21. | EP 0 672 752 A1 | 20.09.95 | Europe | C12N | 15/00 | Yes |
| | 22. | EP 0 604 662 A1 | 06.07.94 | Europe | A01H | 1/00 | Yes |
| 1 | 23. | EP 0 486 234 A2 | 20.05.92 | Europe | C12N | 15/82 | Yes |
| | 24. | EP 0 486 233 A2 | 20.05.92 | Europe | C12N | 15/82 | <u>Yes</u> |
| | 25. | EP 0 442 174 A1 | 21.08.91 | Europe | C12N | 15/82 | Yes |

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| No. | Document No. | Date | Country | Class | Subclass | Translatio |
|-----|-----------------|----------|---------------|-------|----------|------------|
| 26. | EP 0 267 159 A2 | 11.05.88 | Europe | C12N | 15/00 | Yes No |
| 27. | WO 97/46690 | 11.12.97 | International | C12N | 15/67 | Yes |
| 28. | WO 95/06128 | 02.03.95 | International | C12N | 15/82 | Yes |
| 29. | WO 95/13863 | 23.06.94 | International | C25D | 3/56 | <u>Yes</u> |
| 30. | WO 92/20809 | 26.11.92 | International | C12N | 15/89 | Yes |
| 31. | WO 91/02071 | 21.02.91 | International | C12N | 15/82 | Yes |

| No. | OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.) |
|-------|--|
| 32. | Buell C.R. et al., Accession No. AQ964581, January 31, 2000. |
| 33. | Nakamura Y. et al., Accession No. AV566465, June 16, 2000. |
| 34. | Nakamura Y. et al., Accession No. AV525508, June 15, 2000. |
| 35. | Mourrain P. et al., Accession No. AF239719, June 7, 2000. |
| 36. | Nakamura Y., Accession No. AB025633, April 9, 1999. |
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| . 38. | DOE Joint Genome Institute, Accession No. AC009109, August, 4, 1999. |

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| 39. | Chen J. et al., Accession No. AI999551, September 9, 1999. |
| 40. | Wassenegger M et al., 1998, "A model for RNA-mediated gene silencing in higher plants" Plant Molecular Biology 37:349-362. |
| 41. | Aranda M et al., 1998, "Virus-Induced Host Gene Shutoff in Animals and Plants" Virology 243 :261-267, Article No. VY989032. |
| 42. | Fire A <i>et al.</i> , 1998, "Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans" <i>Nature</i> 391 :806-811. |
| 43. | Al-Kaff N et al., 1998, "Transcriptional and Posttranscriptional Plant Gene Silencing in Response to a Pathogen" www.sciencemag.org * Science 279:2113-2115. |
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| 46. | Vaucheret H et al., 1998, XP-002149065, "Transgene-induced gene silencing in plants" The Plant Journal 16(6):651-659. |
| 47. | Elmayan T et al., 1998, XP-002149063, "Arabidopsis Mutants Impaired in Cosuppression" www.plantcell.org, The Plant Cell 10:1747-1757. |
| 48. | Voinnet O et al., 1998, "Systemic Spread of Sequence-Specific Transgene RNA Degradation in Plants Is Initiated by Localized Introduction of Ectopic Promoterless DNA" Cell 95:177-187. |
| 49. | Schiebel W et al., 1998, "Isolation of an RNA-Directed RNA Polymerase-Specific cDNA Clone from Tomato" www.plantcell.org, The Plant Cell 10:2087-2101. |
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|-----|---|--|
| 51. | Jones C et al., 1998, "The effect of chimeric transgene architecture on co-ordinated gene silencing" Planta 204:499-505. | |
| 52. | Brigneti G et al., 1998, "Viral pathogenicity determinants are suppressors of transgene silencing in Nicotiana benthamiana" <i>The EMBO Journal</i> 17(22):6739-6746. | |
| 53. | Prokisch H <i>et al.</i> , 1997, "Impairment of calcineurin function in Neurospora crassa reveals its essential role in hyphal growth, morphology and maintenance of the apical Ca ²⁺ gradient" <i>Mol Gene Genet</i> 256 :104-114. | |
| 54. | Ratcliff F et al., 1997, "A Similarity Between Viral Defense and Gene Silencing in Plants" www.sciencemag.org, Science 276:1558-1560. | |
| 55. | Kempin SA et al., 1997, "Targeted disruption in Arabidopsis" Nature 389:802-803. | |
| 56. | Voinnet O et al., 1997, "Systemic signalling in gene silencing" Nature 389:553. | |
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| 58. | Angell S <i>et al.</i> , 1997, "Consistent gene silencing in transgenic plants expressing a replicating potato virus X RNA" <i>The EMBO Journal</i> 16 (12):3675-3684. | |
| 59. | Elmayan T <i>et al.</i> , 1996, "Expression of single copies of a strongly expressed 35S transgene can be silenced post-transcriptionally" <i>The Plant Journal</i> 9 (6):787-797. | |
| 60. | Lomonossoff G, 1995, "Pathogen-Derived Resistance To Plant Viruses" <i>Annu. Rev. Phytopathol.</i> 33 :324-43. | |
| 61. | van Engelen F et al., 1995, "pBINPLUS: an improved plant transformation vector based on pBIN19" Transgenic Research 4:288-290. | |

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| 62. | Panabières F et al., 1995, "Characterization of a Gene Cluster of Phytophthora cryptogea Which Codes for Elicitins, Proteins Inducing a Hypersensitive-Like Response in Tobacco" Molecular Plant-Microbe Interactions 8(6):996-1003. |
| 63. | Kamoun S et al., 1993, "A Gene Encoding a Host-Specific Elicitor Protein of Phytophthora parasitica" MPMI 6(5):573-581. |
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